2SD2560 **Darlington**

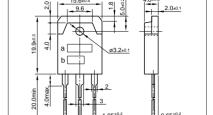


Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1647)

Application: Audio, Series Regulator and General Purpose

Absolute maximum ratings (Ta=25°C					
Symbol	2SD2560	Unit			
Vсво	150	V			
VCEO	150	V			
VEBO	5	V			
Ic	15	А			
Ів	1	А			
Pc	130(Tc=25°C)	W			
Tj	150	°C			
Tstg	-55to+150	°C			

Electrical Cl	haracteristics	(Ta=25°C)		
Symbol	Conditions	2SD2560	Unit	
Ісво	Vcb=150V	100max	μΑ	
Г ЕВО	V _{EB} =5V	100max	μΑ	
V(BR)CEO	Ic=30mA	150min	V	
hfe	Vce=4V, Ic=10A	5000min*		
Vce(sat)	Ic=10A, IB=10mA	2.5max	V	
VBE(sat)	Ic=10A, IB=10mA	3.0max	V	
fт	Vce=12V, Ie=-2A	70typ	MHz	
Сов	VcB=10V, f=1MHz	120typ	pF	

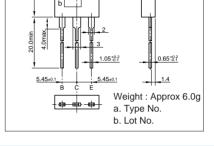


External Dimensions MT-100(TO3P)

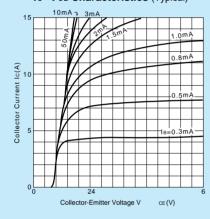
*hfe Rank \(\overline{O}(5000 to 12000), P(6500 to 20000), Y(15000 to 30000)

Typical Switching Characteristics (Common Emitter)

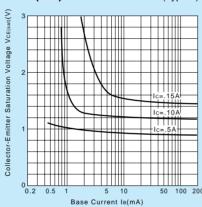
Vcc (V)	RL (Ω)	Ic (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	ton (µs)	tstg (µs)	tf (μs)
40	4	10	10	-5	10	-10	0.8typ	4.0typ	1.2typ



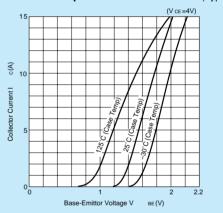




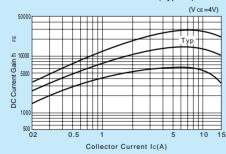
VcE(sat)-IB Characteristics (Typical)



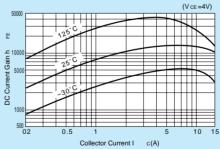
Ic-VBE Temperature Characteristics (Typical)



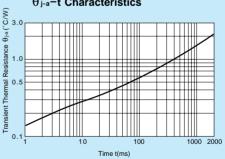
hfe-Ic Characteristics (Typical)



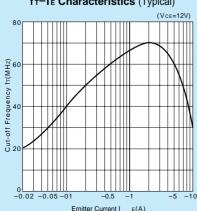
hfe-Ic Temperature Characteristics (Typical)



θ_{j-a}-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)

Pc-Ta Derating

